

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit	Agin Day
PO038893	ACI001-VC	2	7	Net 30		6061-T6 Round Bar 4.000"": MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft				6	1/2/2018	6		\$037941	Stock	2/1/2018	\$ 42.41 / ft	
		3				Round Bar 1.00***: MATERIAL: 6061- 16/1651/16510/16511/162 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS-QQ-A-800/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft				20		20		S037942	Stock	2/1/2018	\$ 2.55 / ft	
		4			MG081T6R2:250	6061-T6 Round Bar 2.250***: MATERIAL: 6061- 6061				6		6		5037943	Stock	2/1/2018	\$ 14 19 / ft	
		5			M304R0.4375	304 Round Bar 0.4375 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft				12	7.35%	12	1	6037944	Stock	2/1/2018	5 1.53 / ft	
		6				304 Round Bar 0.375 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft				24		24		037945	Stock	2/1/2018	5 1.19 / ft	
		8				303 Round Bar 0.750 : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft				96	******	96		037946	Stock	2/1/2018	6 4.85 / ft	50
		12		- 01	ASTM	1010-1025 Steel Bar 1,000 X 3,000 : MATERIAL: AISI 1010- 1025 OR ASTM A36/A366/A569/A570 OR DR CSA G40-21 188W/44W/50W/60W/70W CSA G40-21 OR 188W/44W/50W/60W/70W	8.			12		12		037947	stock	2/1/2018	10.20 / ft	
		17			N 1	M1018R0.250 : MATERIAL: AISI 1018- 1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM						12	S	037948	Stock	2/1/2018 §	0.16 / ft	
		18			E F	M1018R2.00 : MATERIAL: AISI 1018-1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM A108 receive ft				20		20	/s	037949 S	Stock	2/1/2018 S	9.61 / ft	

Plex 2/1/2018 11:51 AM Dart Dubois Pascal

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DELIVERY			J6S 5L1
	ACIER OUELLETTE INC.	935, Boul. du Hâvre	alaberry de Valleyfield (Québec) 369
15/15/11			200 July 100 S

CO00071759

		DELIVERY - CLIENT	CLIENT	CO000717
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000000	Salaberry de Valleyfield (Québec) J6S 5L1	Salaberry de Valleyfield (Québec) 16S 5L1	Date	2018/01/29
	Fax: 450-377-5696 M	. 190-377-5696 Mti: 314-336-4246 EXI.: 800-067-4248 Fax: 450-377-5696 Mti: 514-336-4246 Ext.: 866-456-4242	Delivery date	2018/01/30
			Your order N°	PO038893
Billed to	Shipped to		Drococca hy	40
DART AEROSPACE LTD			riocessed by	stepnanie Dignard
			Salesman	
1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7	, Ontario,		Carrier	OUELLETTE VALLEYFIELD
	Att : CHANTAL LAV	LAVOIE Tél.: 613-632-5200	Credit Terme	Net 30 Days
Instruction F-M	Delivery Route	5	Page	1
Product Description	440:00		PCS NB	Internal Use Only
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Instruction F-M Delivery Route	Droduct Description		1 ROUND ALU 4 6061-T6 RANDOM RAL-4-V 5163	1 X 6'	COUPE A LA SCIE SCIE 1	2 ROUND ALU 1 6061-T6 RANDOM RAL-1-V 5141 1 X 20'	3 ROUND ALU 2 1/4 6061-T6 RANDOM RAL-214-V 5145 1 X 6'	

NIR: R-109516-6

DELIVERY - CLIENT

ACIER OUELLETTE INC. 935, Boul. du Hâvre Salaberry de Valleyfield (Québec) 16S 5L1 Tél.: 450-377-4248 Mt: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Delivery date

CLI0001056 **Customer N°** Date

2018/01/30 2018/01/29

PO038893 Your order N°

Billed to SH	Shipped to			
DART AEROSPACE LTD		Ž	Processed by	Stephanie Dignard
		Sa	Salesman	
HAWKESBURY, Ontario, K6A 1K7	, Ontario,	ප	Carrier	OUELLETTE VALLEYFIELD
4	Att : CHANTAL LAVOIE Tél.: 613-632-5200		Credit Terme	Net 30 Days
Instruction F-M	Delivery Route 5	Pa	Page	2
Product Description	Weight	M/II	PCS NB	Internal Use Only
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NIR: R-109516-6

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RSS-1303-V

2 X 12' R/L

ROUND SS 1 303 RANDOM

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2 X 12' R/L

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ROUND SS 3/8 304 RANDOM

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RSS-38-V

1 X 12' R/L

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4 ROUND SS 7/16 304 RANDOM

COUPE A LA SCIE

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RSS-716-V

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DELIVERY - CLIENT

ACIER OUELLETTE INC.

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242 935, Boul. du Hâvre Salaberry de Valleyfield (Québec) J6S 5L1

Shipped to

, Ontario,

1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

DART AEROSPACE LTD

Billed to

CLI0001056 2018/01/29 **Customer N°** Date

2018/01/30 Your order N° **Delivery date**

PO038893

Stephanie Dignard

OUELLETTE VALLEYFIELD Net 30 Days

Carrier

Processed by Salesman

Credit Terme

Att: CHANTAL LAVOIE Tél.: 613-632-5200

3

Page

PCS NB

B/0 EXP CMD

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Product Description

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Instruction

ROUND SS 3/4 303 RANDOM

RSS-34303-V

Delivery Route

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Internal Use Only

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FLAT CR 1 X 3 1018 RANDOM

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FCR-13-V

8 X 12' R/L

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PI_\$CLB 12.00

2.00

ROUND CR 1/4 1018 RANDOM

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RCR-14-V

1 X 12' R/L

7

12,71

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5319

RCR-2-V

1 X 20' R/L

ROUND CR 2 1018 RANDOM

10

1 X 12' R/L

PI_\$CLB

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NIR: R-109516-6

Next Page...

DELIVERY - CLIENT

Customer N°

Date

ACIER OUELLETTE INC.

935, Boul. du Hâvre Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Shipped to

, Ontario,

HAWKESBURY, Ontario, K6A 1K7

DART AEROSPACE LTD 1270, ABERDEEN ST.

Billed to

CLI0001056 2018/01/29

2018/01/30

PO038893

Your order N° Delivery date

Processed by

Salesman Carrier

Stephanie Dignard

OUELLETTE VALLEYFIELD

Net 30

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ALU SHEET 1/8 2024-T3 RANDOM NS

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Product Description

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respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Time

Delivered Byn

Verified By:

Prepared By:

All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in

Total Weight (Lbs): 752.90

NIR: R-109516-6

Total (\$CAD)

Customer's Signature

NIR: R-109516-6

Billed to DART AEROSPACE LTD 1270 , ABERDEEN ST. HAWKESBURY, Ontanio, K6A 1K7 A Product Description	Shipped to , Ontario, Alt: CHANTAL LAVORE Delivery Route Weight 88.58	LAVO(E Tél.; 613-632-5200 e 5 lt Qty U 3.58 6.00 P1_3	5200 U/M P1_\$CLB	Salesman Carrier Credit Ter Page PAGE	Processed by Salesman Carrier Credit Terme		Stephanie	Stephanie Dignard	hard			
K6A 1K7	NTAL Rout	Tél.; 613-632-	0/M U/M P1_\$CLB	Salesn Carrie Credit Page	nan Terme			2	2			
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ption	Rout Weigh	Qty 6.00	0/M U/M P1_\$CLB	Credit Credit CMD	Тегте							
ption	at: CHANTAL LAVOIE Pelivery Route Weight 88.58	Cél.: 613-632-	U/M U/M P1_\$CLB	Page	Тегте		OUELL	OUELLETTE VALLEYFIELD	ALLEYF!	ELD		
	99	\$	U/M P1_\$CLB	8			Net 30 Days	Days				
Product Description	Weight 88.58	Qty 6.00	U/M PI_\$CLB	1 H			-					
בוסמתר הפארווטרוטוו	88.58	80.9	PI_\$CLB	H	PCS NB	-		Internal Use Only	al Use	Only		
	88.58	6.00	PI_\$CLB		EXP	8/0	NI	1	SC		DUT	
1 ROUND ALU 4 6061-T6 RANDOM				1.00								
RAL-4-V 5163				•					-			
COUPE A LA SCIE		1.00	N _D									
D ALU 1 6061-T6	18.50	20.00	PI_\$CL8	1.00	•	,				191		
1 X 20' HEAT, SXB150069												
3 ROUND ALU 2 1/4 6061-T6 RANDOM PAI-214-V	28.02	6.00	PL_\$CL8	1.00								
7. 68257 A SOIE		1.00	Ŋ									

CO00071759

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Order - Sales

CLI0001056 2018/01/29

Customer N°

ACIER OUELLETTE INC.
935, Boul. du Hâvre
Salaberry de Valleyfield (Québec.) 165 51.1
Tél.: 450-377-4248 MB: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 MB: 514-336-4246 Ext.: 866-456-4242

Date

NIR: R-109516-6

					Deliv	Delivery date		2018/01/30	01/3	9			
					Your	Your order N°	•	PO038893	93				
Billed to DART AEROSPACE LTD	Shipped to	to			Proc	Processed by		Stephanie Dignard	ile Digi	nard			
					Salesman	man							
1270 , ABERDEEN ST. HAVKESBURY, Ontario, K6A 1K7	, Ontario,				Carrier	La La		OVELLETTE VALLEYFIELD	TTE V	ALLEY	FELD		
	Att: CH	ART : CHANTAL LAVOIE TÉL : 613-632-5200	Tél.: 613-632-	5200	Credi	Credit Terme		Net 30 Days	SyeC				
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4 ROUND SS 7/16 304 RANDOM		6.13	12.00	PI, \$CL8	1.00					-			
R55-716-V 5779													
		5.02	24.00	PI_\$CLB	2.00								
RSS-38-V 5768								E					
6 ROUND SS 1 303 RANDOM		64.08	24.00	PI_\$CLB	2.00								
4E4T: 232X													
7 ROUND SS 3/4 303 RANDOM RSS-34303-V 5761		144,19	96.00	PI_\$CLB	8.00								
BX12'R, HEAT: CH-6094							×						
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Order - Sales

CLT0001056 2018/01/29

Customer N°

ACIER OUELLETTE INC.
935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) 165 St.1
Tél.: 450-377-4248 Mb: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 MB: 514-336-4246 Ext.: 866-456-4242

Date

This + 459-379-4248 Ht is 14-336-4246 Ext.: 806-667-4248 Date 2018/01/29	tion A	48 Mti: 514-336-4246 Ext.: 96 Mti: 514-336-4246 Ext.: 97 Mti: 514-336-4246 Ext.: 98 Mti: 514-336-4246 Ext.: 99 Mti: 514-336-4246 Ext.: 99 Mti: 514-336-4246 Ext.: 90 Mti: 514-336-4246 Ext.: 90 Mti: 514-336-4246 Ext.: 90 Mti: 514-336-4246 Ext.: 90 Mti: 514-336-4246 Ext.: 91 Mti: 514-336-4246 Ext.: 91 Mti: 514-336-4246 Ext.: 91 Mti: 514-336-4246 Ext.: 91 Mti: 514-336-4246 Ext.: 92 Mti: 514-336-4246 Ext.: 93 Mti: 514-336-4246 Ext.: 94 Mti: 514-336-4246 Ext.: 95 Mti: 514-336-4246 Ext.: 95 Mti: 514-336-4246 Ext.: 96 Mti: 514-336-4246 Ext.: 97 Mti: 514-336-4246 Ext.: 97 Mti: 514-336-4246 Ext.: 97 Mti: 514-336-4246 Ext.: 97 Mti: 514-336-4246 Ext.: 98 Mti: 514-336-4246 Ext.: 98 Mti: 514-336-4246 Ext.: 99 Mti: 514-336-4246 Ext.: 99 Mti: 514-336-4246 Ext.: 90 Mti: 514-336-4246 Ext.: 90 Mti: 514-336-4246 Ext.: 90 Mti: 514-336-4246 Ext.: 91 Mti: 514-336-426 Ext.: 91 Mti: 514-336-426 Ext.: 91 Mti: 514-336 Ext.: 91 Mti: 514-336 Ext.: 91 Mti: 514-336 Ext.: 91 Mti: 514-346 Ext.: 91 Mti: 514-346 Ext.: 91 Mti: 514-346 Ext.: 91 Mti: 514-346 Ext.: 91 M	800-657-4248	Date				
Shipped to Processed by Proces	Shipped to , Ontario, Att : CHANT, Ption We	LAVOIE Tél.: 613-632-5 e 5 kt Qty				2018/01/29		
Shipped to Processed by Stephanie Dignard	Shipped to , Ontario, Att: CHANT, ption We	LAVOIE Tél.: 613-632-5 e 5 kt Qty 2.40 12.00		Delivery d	ate	2018/01/3	0	
Shipped to Processed by Stephanie Dignard Safesman Carrier Carrier Carrier OutlierTre ValleYFELD Att : CHANTAL LAVOIE Tél.: 613-632-5200 Credit Terme Net 30 Days	Shipped to , Ontario, Att : CHANT, ption Ption We	LAVOIE Tél.: 613-632-5 e 5 kt Qty 2.40 12.00		Your orde	. N.	P0038893		
Carler Chantal LAVOIE Tél.: 613-632-5200 Credit Terme Net 30 Days	Att: CHANT. Ption Ption We	E 5 Rt Qty 2.40 12.00		Processed	by	Stephanie Digr	nard	
### Carrier OUELETTE VALLEYFELD Att : CHANTAL LAVOIE Tél.: 613-632-5200	ption We	LAVOIE Tél.: 613-632-9 e 5 kt Qty		Salesman				
Att : CHANTAL LAVOIE Tél.: 613-632-5200	Delivery Ro	LAVOIE Tél.: 613-632-9 e 5 kt Qty 2.40 12.00		Carrier		OUELLETTE VA	ALLEYFIELD	
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NIR: R-109516-6

CO00071759 50 Internal Use Only **OUELLETTE VALLEYFIELD** Ų Copy Stephanie Dignard w 2018/01/30 Net 30 Days CL10001056 2018/01/29 PO038893 Z 0/0 Order - Sales PCS NB Your order No Delivery date Processed by Customer N° **Credit Terme** Conditions:
As 90 of defined and control of Acet Oceette Including parametrial made in full complete and casted. All lost materials are at the Outer's capetrial. The buser is experient. The buser is except to recept the facilities and the control of the cleant. The buser interest screeps to respect the February controls. Ret 30 days from billing data and the buser accords to pay administration charges of 2% per month (24% per annum) or all part dute accords to buser accords to pay administration charges of 2% per month (24% per annum) or all part dute accords to be accepted; and permits to the series, and of the part of the goods of All darms from the mode within some at the goods soid. All darms from the within five (5) days in this document enclosed. Any membranes eithat has been demanded annumber of 1900s returned must be with our authorization and are subject to NIR: R-109516-6 EXP Salesman Carrier Date Page CMO 0.00 935, Boul, du Hâvre Salaberry de Valleyfield (Québec) 365 5L1 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242 ¥ > Att : CHANTAL LAVOIE Tél .: 613-632-5200 Total Weight (LBS) :1 752.90 Qty ACIER OUELLETTE INC. V Weight Delivery Route Shipped to Ontario, FRAIS_ENERGETIQUE Product Description HANYKESBURY, Ontario, K6A 1K7 SURCHARGE ENERGETIQUE DART AEROSPACE LTD 1270, ABERDEEN ST. Billed to

Total (\$CAD) Deposit Balance

Σ

Customer's Signature

Time

Delivered By

Verified By:

Prepared By:

2 228,76

2 228.76

0.00



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

PURCHASE ORDER PO038893

Tel (613) 632-5200

Supplier:

Ship To:

ACI001-VC

Acier Ouellette Inc. 935 Boul. Du Havre

Valleyfield

QC

J6S 5L1 Canada Phone: 800 667 4248

Fax: 450 377 5696

1270 Aberdeen Street Hawkesbury

ON

K6A 1K7 Canada Phone: 613-632-5200 PO No:

PO038893

PO Date:

1/29/18

Due Date:

1/31/18

Purchase Order

Revision:

Revision Date:

Phone:

Ship-To Contact:

JAN 2 9 2018

Via:

Ground Net 30

Pymt Terms: Freight Terms:

Special Comments:

				Items						
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity		Unit Price (CAD)	Extended Price
1	M6061T6R1.625		6061T6 Round Bar 1.625 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft		1/31/18	12 ft	O ft	12 ft	\$6.7225/ft	\$80.67
2	M6061T6R4.000		6061-T6 Round Bar 4.000" : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	1/31/18	6 ft	Off	6 ft	\$42.405/ft 0 1 2016 DAS 11 9-89	\$254.43

Lin		Supplier			Due	Order	Received		Unit	Extende
lten	1	Part No	Description	Statu	Date	Quantity	Quantity	Balance		Price
3	M6061T6R1.000		Round Bar 1.00" : MATERIAL: 6061- T6/T651/T6510/T6511/T6. ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	2	1/31/18	20 ft	20	20 ft	\$2.5525/ft	\$51.0
4	M6061T6R2.250		6061-T6 Round Bar 2.250" : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM 3221 eceive ft		1/31/18	6 ft	0 ft	6 ft	\$14.18666/ft	\$85.12
5	M304R0.4375	: S A 3	MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 03 NOT ACCEPTABLE eceive ft	Firmed	1/31/18	12 ft	12	12 ft	\$1.5325/ft	\$18.39
6	M304R0.375	: S A 3	04 Round Bar 0.375 MATERIAL: AISI 304/316 S ROUND BAR AS PER STM A276 NOTE: AISI 03 NOT ACCEPTABLE eceive ft	Firmed	1/31/18	24 ft	24 of	24 ft	\$1.188/ft	\$28.51
7	M303R1.000	: R A N A	03 Round Bar 1,00 MATERIAL: AISI 303 SS OUND BAR AS PER STM A582 OTE:304/316 NOT CCEPTABLE ceive ft	Firmed	1/31/18	24 ft	0 ft	24 ft \$	88.0620833/ft	\$193.49
	M303R0.750	: I R: A: N: A:	03 Round Bar 0.750 MATERIAL: AISI 303 SS OUND BAR AS PER STM A582 OTE:304/316 NOT CCEPTABLE ceive ft	Firmed	1/31/18	96 ft	16 Of	96 ft \$	4.8507291/ft	\$465.67
N	MT-4140QT-R1.375	: M QI TE AS	T-4140 QT-R1.375 MAT'L: AISI 4130 UENCHED & EMPERED ROUND BAR S PER STM 4140 QT OR ASTM 42 QT	Firmed	/31/18	20 ft	O ft	20 ft	\$9.3885/ft	\$187.77

FEB 0 1 2018

DAS 9-89

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Line		Supplier		T	Due	Order	Received	Γ	Unit	Extende
Item	Part	Part No	Description	Statu		Quantity				The second secon
10	MT-4140QT-R2.250	1	AISI 4140 Q&T Round B: : MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BA AS PER ASTM 4140 QT OR ASTI 4142 QT	R	d 1/31/18	20 ft	0 ft	20 ft	\$21.7605/4	\$435.2
11	MT-A513-T- 4.000W0.120		A513 Seamless Alloy Steel Round Tubing 4"dia x 0.120" Wall	Firmed	1/31/18	20 ft	0 ft	20 ft	\$19.35/fi	\$387.00
12	M1018B1.000X03.000		1010-1025 Steel Bar 1.000 X 3.000 MATERIAL: AISI 1010- 1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 88W/44W/50W/60W/70W CSA G40-21 OR 88W/44W/50W/60W/70W	Firmed	1/31/18	12 ft	0 ft	12 ft	\$10.195/ft	\$122.34
13	M303B1.000X1.000	: E N	M303B1.000 X 1.000 MATERIAL: AISI 303 SS BAR AS PER ASTM A582 IOTE: AISI 304/316 NOT ICCEPTABLE eceive ft	Firmed	2/7/18	12 ft	0 ft	12 ft	\$9.52/ft	\$114.24
14	M303B1.000X03.000	: B N A	03 Bar 1" X 3' MATERIAL: AISI 303 SS AR AS PER ASTM A582 OTE: AISI 304/316 NOT CCEPTABLE eceive ft	Firmed	2/13/18	12 ft	O ft	12 ft	\$75.33/ft	\$903.96
5 N	//304B0.750X2.500	: I S S A N	04 Bar .750 X 2.50 MATERIAL: AISI 304/316 S BAR OR AISI 304/316 S PLATE AS PER ASTM 276 OR ASTM A240 OTE: AISI 303 NOT CCEPTABLE ceive ft	Firmed	2/1/18	12 ft	O ft	12 ft \$	24.221666/ft	\$290.66
6 M	1304B0.500X2.500	: M SS SS A2 NO A0	04 Bar .500 X 2.50 MATERIAL: AISI 304/316 B BAR OR AISI 304/316 B PLATE AS PER ASTM 276 OR ASTM A240 DTE: AISI 303 NOT CCEPTABLE ceive ft	Firmed	1/31/18	12 ft	O ft	12 ft \$	13.468333/ft	\$161.62
7 M	1018R0.250	: M 10 M1	MATERIAL: AISI 1018- 25 ROUND BAR 1010S20GA AS PER L-S-7097 OR ASTM	Firmed	1/31/18	12 ft	12	12 ft	\$0.16/ft	\$1.92
ВМ	1018R2.00	: M 102 M1 MII A1	ATERIAL: AISI 1018- 25 ROUND BAR 010S20GA AS PER -S-7097 OR ASTM	Firmed 1	/31/18	20 ft	0 ft	20 ft FEB 0 1	\$9.6065/ft	\$192.13 DAS 11

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Line		-		Items						
ltem	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended
19	M2024T3S.125		2024-T3 .125 Sheet : MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209 receive sf	Firmed	1/31/18					Price \$555.35
20	M5052H32S.032	F	5052-H32 .032 Sheet MATERIAL: 5052-H32 ALUMINUM SHEET AS PER QQ-A-250/8 OR AMS-QQ-A-250/8 OR AMS 4016 OR ASTM 3209 eceive sf	Firmed	1/31/18	64 sf	0 sf	64 sf	\$2.59375/sf	\$166.00

Order Notes

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 1/29/18 12:46 PM dart.lavoie.chantal



ACIER OUELLETTE INC.

935, Boul. du Hâvre

Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0081335

Billed to **Customer Nº** DART AEROSPACE LTD

1270, ABERDEEN ST. **Revision Nº** HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att: CHANTAL LAVOIE Tél.: 613-632-5200

CLI0001056

Date

2018/01/19

0

Prices valid until

2018/01/26

Your Order No Processed by

Josianne Bourdon

Salesman

JOSIANNE

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

			Page			1			
Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
ROUND ALU 1 5/8 6061-T6 RANDOM RAL-158-V 5138 1 X 12' STOCK	29.23	12.00	PI_\$CLB				1.00	80.670	80.67
ROUND ALU 4 6061-T6 RANDOM RAL-4-V 5163 1 X 6' STOCK	88.58	6.00	PI_\$CLB	6.00	PI		1.00	254.430	254.43
COUPE A LA SCIE SCIE 1		1.00	UN	1.00					
ROUND ALU 1 6061-T6 RANDOM RAL-1-V 5141 1 X 20' STOCK	18.50	20.00	PI_\$CLB	20.00	PI		1.00	51.050	51.05
ROUND ALU 2 1/4 6061-T6 RANDOM RAL-214-V 5145 1 X 6' STOCK	28.02	6.00	PI_\$CLB	6.00	PI		1.00	85.120	85.12
COUPE A LA SCIE SCIE 1		1.00	UN	1.00					
ROUND SS 7/16 304 RANDOM RSS-716-V 5779 1 X 12' R/L STOCK	6.13	12.00	PI_\$CLB	12.00	PI		1.00	18.390	18.39
ROUND SS 3/8 304 RANDOM RSS-38-V 5768 2 X 12' R/L STOCK	9.02	24.00	PI_\$CLB	24.00	PI		2.00	14.255	28.51
ROUND SS 1 303 RANDOM RSS-1303-V 8519 2 X 12' R/L STOCK	64.08	24.00	PI_\$CLB	24.0QN	L\$UN		2.00	96.745	193.49
ROUND SS 3/4 303 RANDOM RSS-34303-V 5761 8 X 12' R/L 2-3 DAYS	144.19	96.00	PI_\$CLB	96.00	PI		8.00	58.208	465.67



ACIER OUELLETTE INC.

935, Boul. du Hâvre

Salaberry de Valleyfield (Québec) J6S 5L1

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Page

			Page	4	2			
Product N° and description	Weight	Qty	U/M	Qty U/M	Price	Pcs Nb	Price	Amoun
ROUND 4140 HT 1 3/8 NS R4140-138H 9252 1 X 20' R/L 2-3 DAYS	100.98	20.00	PI_\$CLB	20.00UN_\$UN		1.00	187.770	187.77
ROUND 4140 HEAT TREAT 2 1/4 RANDOM R4140-214H-V 4927 1 X 20' R/L 2-3 DAYS	270.40	20.00	PI_\$CLB	20.00 PI		1.00	435.210	435.21
TUBE MECH. A513 4" OD X .120 N 1 X 20' R/L 2-3 DAYS	0.00	1.00	UN	1.00 UN		1.00	387.000	387.00
FLAT CR 1 X 3 1018 RANDOM FCR-13-V 2727 1 X 12' R/L STOCK	122.40	12.00	PI_\$CLB	12.00 PI		1.00	122.340	122.34
SQUARE SS 1 SS303 NS CSS-1303 9512 1 X 12' R/L 1 WEEK	40.80	12.00	PI_\$CLB	12.00JN_\$UN		1.00	114.240	114.24
PLAT SS303 1 X 3 N 1 X 12' R/L 7-10 DAYS	0.00	1.00	UN	1.00 UN		1.00	904.000	904.00
FLAT SS 3/4 X 2 1/2 SS304 RANDOM NS FSS-34212-V 8747 1 X 12' R/L 2-3 DAYS	76.50	12.00	PI_\$CLB	12.00JN_\$UN		1.00	290.660	290.66
FLAT SS 1/2 X 2 1/2 SS304 RANDOM NS FSS-12212-V 8302 1 X 12' R/L	51.48	12.00	PI_\$CLB	12.00 PI		1.00	161.620	161.62
ROUND CR 1/4 1018 RANDOM RCR-14-V 5277 1 X 12' R/L STOCK	2.00	12.00	PI_\$CLB	12.00 PI		1.00	1.920	1.92
ROUND CR 2 1018 RANDOM RCR-2-V 5319 1 X 20' R/L STOCK	213.60	20.00	PI_\$CLB	20.00 PI		1.00	192.130	192.13

Date:

Next Page...



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935, Boul. du Hâvre

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Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
ROUND 4140 HT 1 3/8 NS R4140-138H 9252 1 X 20' R/L 2-3 DAYS	100.98	20.00	PI_\$CLB		UN_\$UN		1.00	187.770	187.77
PAL-146061-V 4245 1 X 6 1/4" X-96" STOCK	18.30	5.00	PI2_\$CLB	5.00	PI2		1.00	85.870	85.87
SHEAR CUT SHEAR 2		1.00	UN	1.00					
ALU SHEET 1/8 2024-T3 RANDOM NS FEAL-182024-V 8603 1 X 4' X 8' STOCK	56.38	32.00	PI2_\$CLB	32.00	PI2		1.00	555.350	555.35
ALU SHEET .032 (20G) 5052-H32 NS FEAL-032 9714 2 X 4' X 8' 2-3 DAYS	28.86	64.00	PI2_\$CLB	64.00	JN_\$UN		2.00	83.000	166.00
SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE			\$						3.95

Total Weight (Lbs)

1 470.43

Important

This offer is based on availability and current pricing conditions that may be revised upon reception of the order.

TVH-13 · · 646.51

This offer is subject and conditional to credit approval.

Approuved and Accepted by:

Sub-total

Total (\$CAD)

5 619.67

4 973.16

Chantal Lavoie

From:

Chantal Lavoie

Sent:

Friday, January 19, 2018 11:35 AM

To:

'Josianne Bourdon'

Cc:

Diane Baker

Subject:

quote

Good morning Josianne, Please advise price an delivery on mat'l.

6061t6 round bar 1.625" x 12 ft 6061-t6 round bar 4" x 6 ft 6061-t6 round bar 1" x 12 ft 6061-t6 round bar 2.250" x 6 ft

304 round bar 0.4375 x 12 ft 304 round bar 0.375" x 24 ft

303 round bar 1" x 24 ft 303 round bar 0.750" x 96 ft

4140 qt 1.375" x 12 ft 4140 qt 2.250" x 12 ft

A513 round bar 4" x 0.120wall x 12 ft

1018 bar 1" x 3" x 12 ft

303 bar 1" x 1" x 12 ft 303 bar 1" x 3" x 12 ft

304 bar 0.750" x 2.5" x 12 ft 304 bar 0.500" x 2.50" x 12 ft

1018 round bar 0.250" x 12 ft 1018 round bar 2.00" 20 ft

4140h round bar 1.375" x 12 ft

6061-t6 bar or plate 0.250" x 6.250" x 8 ft

2024t3 sheet.125" x 32 sf

5052h32 sheet .032" x 64 sf

Thanks
Chantal Lavoie
Purchasing Coordinator

RAL-4-V

7RA 1915-49124



GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: MY XUAN B1-CONAC INDUSTRIAL ZONE, MY XUAN TOWN, TAN THANH DISTRICT,

BA RIA VUNG TAU PROVINCE, VIETNAM

Tel: +84(0)643924954 Fax: +84(0)643924953

MILL TEST CERTIFICATE

Date: 8 August, 2017

Applicant/Consignee: SINOMETAL RESOURCES INC.

4455 RUE COUSENS SAINT-LAURENT, QC, H4S 1XS, CANADA

PO number: 17-P-292 Shipping Ref No.: 17-1489 LC No.: DC HMN713076 Date of issue: 28 July, 2017 Item Code: 1075503

Die Number: D00529 Alley & Temper: 6061-T6511

Production Description: CUSTOM ALUMINIUM EXTRUSION (Round Bar)

Round Bar 4"x 12' 6061-T6511

Length (inch): 144

Bundle number: 17-P-292-055, 17-P-292-057, 17-P-292-058, 17-P-292-056

Heat Number: SXA171313

Date: 26/07/2017

Applicable Specifications: ASTM B221 STANDARDS

CHEMICAL ANALYSIS: %

-		-	-	1	~	Zn	7877	1	0	ther	Damania.
Si	Mg	Fe	Cu	Mn	Cr	Z.B	11	, A	EACH	TOTAL	Remark:
0.658	0.989	0.240	0.264	0.017	0.086	0.012	0.021	98.622	<0.05	<0.10	23/7/2017

MECHANICAL ANALYSIS:

Ult. Strength (ksi)	Yield Strength (ksi)	Elongation % LN 2"	Remark:
41.2	38,4	12.9	23/7/2017

All profiles, showing material shipped match aluminium alloy as per standard, with chemical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager

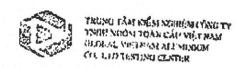


TRUNG TÂM KIỆM NGHIỆM CÔNG TY THAH NHÔM TOÀN CÂU VIỆT NAM GLOBAL VIETNAM ALUMINIUM CO., LTD TESTING CENTER 5141

KAL-IV

TRA 1993 49573





Signal Vietnam Aluminium Co., Lid

Address: My Xian B1-Come industrial zone, My Xian town, Tan Thinh district.

Ba Ria-Vung Tau province, Vict Nam

Tel: Fax: ~54(0)643924954 ~84(0)643924953

MILL TEST CERTIFICATE

Date: June 16th 2015

Consignor: SINOMETAL RESOURCES INC.

9470 HENRI-BOURASSA OUEST ST-LAURENT, QC H4S INE. CANADA

PO number: 15-2-041 Shipping Red Nov: 15-0223 LC Nov: DC 11MN 330604 Date of Issue: 27 June, 2015

Item Code: 10-13003

Alloy & Temper: 6061-76

Production Description: Round Bar 1" X 20"

Length (inch): 240 Quantity (pieces): 53

Bundle namber : 15-2-041-007

Hear Number: SXB150069 -

Lot Number: N 150362C

Date: 15-04-2015

Applicable Specifications: ASTM B221 STANDARDS

CHEMICAL ANALYSIS: 3

Si	Fe	Cu	Ma	Me	0-	Zh	נד	0	Ther	4.5		
			1	242	C	241	• • • •	EACH	TOTAL	7 ^1	Romarks	
0.548	011.0	0.204	0.000	0.880	0,105	100.0	0.007	<0.05	<0.15	98.132	11/04/2015	
M	ECHANK	CAL ANZ	LYSIS:	-			1		- adia			

Uli, Sterneth (ksi)	Yiold Strength (ksi)	Etongarion % LN 2"	Comarke
48.1	45.5	13.2	11/04/2015

All profiles, each profile with each MTC, showing naterial shipped match aluminium alloy as per standard, with chemical analysis and mechanical analysis to match aluminium alloy standard.

We hareby certify that the Item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 mentils from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Test de dureté Rockwell Rockwell Hardness Test

Client / Customer:

LES ACIERS TRANSBEC (1997) LTEE.

Adresse / Address :

4054 BOUL LE CORBUSIER # 207

LAVAL QC

H7L5R2

commande Sapa / Sapa order #: 7010442

bon de commande / Purchase order #: OU-47042

de matrice / Die # :

MS 16001

Description:

Alliage & trempage / Allay & temper: 6061 16

Longueur / Lenght: 6097 mm

Contrôle / Control #: 83103-1

Rockwell E hardness: 96 HRE

Coulée / Cost #/: 48252

Dureté Rockwell E /

Min. requis /

Min. required: 88 HRE

Max permis /

Max permitted: 100 HRE

Composition chimique typique / Typical chemical composition:

	21	Fe	Cu	Man	Mg	Cr	Zn	15
6063	0.20 - 0.60	0,35 Max	0.10 Max	0.10 Max	0,45 - 0,90	0,10 Max	0.10 Max	0.10 Max
6005	0.60 - 0.90	0.35 Mox	0,10 Mgx	0.10 Max	0.40-0.60	0.10 Max	0.10 Max	0,10 Max
6005A	0.66-0.74	0,14 - 0,28	61.0 - 80.0	0.18-0,26	0.46 - 0.54	0,03 Mox	0.05 Max	0,05 Max
4061	0.40 - 0.80	0,70 Max	0.15 - 0.40	0.15 Max	0.80 - 1.20	0.04 - 0.35	0,25 Max	0,15 Max
4351	0.7 - 1.3	0.5 Max	0.10 Max	0.40 - 0.80	0,40 - 0,80	· _	0,20 Max	0,20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme ASTM 8-221-14 excepté pour la section 8.2 (nombre de spécimen).

We hereby certify that the material supplied meets the chemical properties as published by the ASTM 8-221-14 except for section 8.2 (number of specimen).

Sincèrement vôtre.

date: 2017-02-08

Yours truly.

Gilles Pelletier

Technicien de la qualité

Quality technician

F.07.04 rev0 Rapport depropriétés mécaniques doc

VIRAJ PROFILES LIMITED



Works: SURVEY NO.- 25/1, 25/2, 26 & 34, Village-MAAN, Taluka-PALGHAR, Dist-THANE, MAHARASHTRA -401 506, INDIA, e-mail- vielqc@viraj.com

MILL'S CERTIFICATE

ORDER NO

PACKING LIST NO INSPECTION NO

DATE

04885

64/1008331/5

100006886214

07.07.2016

GRADE

304/304L

HEAT NO 102445 -

BUNDLE NO: 1100534981,1100534980,

DESCRIPTION

STAINLESS STEEL BRIGHT BARS

COLD DRAWN	POLISHED - 2H				8514729
SIZE	SHAPE	TOLERANCE	LENGTH	PIECES	WEIGHT
7/16"	ROUND	ASTM A484	12' - 14'	328	2,020,000 LB
		CHE	MICAL ANALYSI	S	

%C	%Mn	%SI	%S	%P	%Cr	%Ni	%Cu	%Mo	%Co	%N2	
0.0270	1.380	0.420	0.0220	0.0340	18.400	8.060	0.700	0.340	0.150	0.08500	

TEST RESULTS

0.2% yield strength ksi	Tensile Strength	Elongation %	Reduction Of Area %	Hardness BHN	Grain Size NOS	
94.0	108.0	42.0	70.0	220.0	7.0	7.21 = 1.37 (2.76)

SPECIFICATION:

MATERIAL CONFIRMS TO DIN EN 10088-3:2005:WNR 1.4301/1.4307,EN 10222-5 AND EN 10272 COND-A & ASTM A182/A-182M-16, ASTM A276/A296M-16 COND A. A479/A479M-15 COND A. A193/A193M-126 B8 CL-1, A320/A320M-11a B8 CL-1, A484 16, A388/A388M-05.ASME SA182-14, SA479-17, SA 193-11 B8 CL-1, SA320-11 B8 CL-1.ASTM A314-2008. IGC SATISFACTORY AS PER ASTM A 262-10 PRACTICE E. AMS 5639H /AMS5647J (EXCEPT MARKING), QQ-S-763F, NACE MR0103-2012, NACE-MR0175/ISO-15156-2015. SAE-AMS-S-7720A, MIL-S-862-B. AISI 304/304L & UNS#S30400/S30403, CERTIFICATION AS PER EN 10204-3.1.

REMARKS

MATERIAL IS FREE FROM MERCURY CONTAMINATION, FREE FROM WELD OR WELD REPAIRS, MICRO:FREE FROM CONTINOUS CARBIDE NETWORK ON GRAIN BOUNDARIES. MACRO: GOOD, MINIMUM SOLUTION ANNEALING TEMPERATURE 1050C, SOAKING TIME 1/2 HRS, WATER QUENCHED. MELT SOURCE: AOD, WE CONFIRM THAT THE MATERIAL HAS BEEN TESTED AND FOUND TO BE FREE FROM RADIOACTIVE CONTAMINATION, COUNTRY OF ORIGIN: INDIA.

We hereby certify that the material described above has been tested and complies with the terms of order/contract.

Item-SBR

Heat #-CH-3840



CHANDAN STEEL LIMITED

(GOVT, OF INDIA RECOGNISED EXPORT HOUSE)

ADAL OFFICE INCREMENTALLY AND ADDRESS AND

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WORRS: Philips, SE, G. I. D. C., Undergoon Shat Volent, Ordent-1915 ST. Tale State - MOSTON Trace States 1915 ST. Renall : connectifications and act

R26QC69A/62/18J22012

MILL TEST / INSPECTION CERTIFICATE 3.1

	1240						That Cartis Date of Int P. O. No. SC. No. & Invoice N	Date	: ECP/00887 : 08.07.2016 : P006712 : 15-16/0092 : ECP/00887/	4 De 13.0	L2016	2016	
	966		RODUCT DE				ar eçzinesi.	LING	the second name of the second	S 100 6 10	Net W	1	
		STAR	THE STREET	LROUNI	BARS		Alternative and the	12VP	12-120°		6428	LES.	
Heat l	Va.	7 11 000	inde	1	ites /Inches ·	Tolon	-			o Route	5.7		
CHS	40	1.430	1/20EL 11/2/507	1.	100 A	1.9		· B	Continuo	AOD.B			
	production	0.966		C	HIDAICAL	COMPOSED	ON (Weigi	tt %)	er ander	500.00万	Sair P	Q Sale	
9256	С	9	Mh	P	8	G.	Mo	N	Cu	Co	1555	N	
Mh.	100	S-1-751		9.8142	Table 1910 at	18.00	W. 175-174.5	8.00	Length 1	17.25	•		
Mer.	0.050	1.00	2.00	0.045	0.030	20.00	1.00	10.50	1.00 - 0.10				
Results	0.019	0.42	171	0.000	0.020	18.21	0.32	8.05	0.61	0.30	0	0690	
		100000	. T. T. T. T.	No.	MBCH	ANICAL FRO	PERMS	RESERVE			STALL TO		
	e zarad	alles (d)	The second second	Method :-	EN BOG	2-1		PARTY OF SHIP	Test Method :	Owy V	Notch		
pocified Value	1	Proof Ste	ne.	N/m	Strength nt//bGPs bm)	Pinthers A	of Area	EN EO 6306-1		Tieted (Down) as pin 1913 Sample St Test Tenno, > 20 ⁴		B/B036-1	
	0.2%(Rp0.2)	15(Rp10)			\$ 2	5	(BHDV)	G4.118 (UST	n	III	Ag	
Results	. 5	34	860		712	•	6	215-218	NA.	NA	NA	N	
PMI test Meterial Inter-Ge No wald	done 10 in free 1 maler (ling or v	00% de fo brom man Comunica ralid supe	do was par	ASTM A	n this mate	B) setisfactory. dal while in our se from carbide		in fano fire	nt 1050 °C. In radio-active o		den.		

9. Grain size - No. 7-8 of ASTM as per 2012-66.

10.The material Conferms to ASTM A276-15, ASTM A182/A1826-15, ASME SA 182/SA 1826-13, ASTM A679/A6796-15 ASMESA679/SA-6796-15, ASTM A185/A1886-122 BS - CL1, ASMESA198/SA1986-12 BS - CL1,

ASTIM ASSO/ASSOCIATION FOR 10072-2004 SASSO/SA SSOM TO BE CLL, AMS-QQ-6-7656 COND A, AMS-565761, AMS-566761, BN 100863 - 2014 & DDN RN 10072-2004 Sassification

11. Location of sample - Centre, Direction - Longitudinal, Test Tump - Room Temp., Shape of Test Pince - Round.

12. Meriding details - Company Loro, Sine, Grade & Heat No.

13. The material is manufactured /mail: in Chemisea Shiel Mill and is of Indian Origin.

BUNDLENO: 6 to 51

COLOUR: RED

his leasily certified that the above south are tean and aspect to every fainth and one mosting the requirements of qualification is a particular. MANAGER - QUALITY ASSURANCE

North American Stainless Canada Inc. 740 Imperial Road North Guelph, ON NIK1Z3

大いこうファフ METALLURGICAL TEST REPORT

6870 Highway 42 East Ghent, KY 41045-9615 (502) 347-6600

Certificate: 376093 •

Customer: 007080 003

PRODUCT DESCRIPTION.

Your Order:

2015611

MAS OZDAY: IN 0244860 03

Date: 3/22/2017 Page: 1

4

Flaish: CD Steel: 303

Correstoni

Red Batie: 69.6 11

ROUDD BAR, Amnealed, Cold Draw THE 19100, ASTM ASS2/12 EN 10206 3.1, ASTM ASS4/15 AMES 5560V TYPE 1, QOS-756B COMMITTION A BOLUTION AMERICA, TEMP 1900V MIN REMARKS:

2011/65/ET.Robs. EAF+AOD+CC. NO WELL REFAIR. NEITED AND NOO COMPLIES W/REGULARISMENTS OF DERR 252,325-7009 ED DIRECTIVE IN USA FREE FROM MERICURY AND LOW MELTING ALLOY CONTAMINATION

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×	MAS Heat	CHEMICAL ANALYSIS		BIA099 Q	Product Id
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		Chemical Analysis per ASTM A751/14a	Lab Accreditation Sureau, 180/ISC 17035, Cortificates 1,333		
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NAS hereby certifies that the availysis on this certification is correct. Based upon the results and the socuracy of the test methods used, the material meets the specifications stated. These results relate only to the fisms bested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Dept. Mgr. Technical

KRIS LARK

3/22/2017

5761

RSS-34303-V

CHANDAN STEEL LIMITED

(GOVT. OF INDIA RECOGNISED EXPORT HOUSE)

MOTOR CHITACOTHE SI HOUSE

ADM, DOTTON THE PART BANKS, HE HATTERS HAVE MARRIED OF STREET, STORE

T-1: 77-22 4620000 Fau 91-25-612001204

Byelolir ungerechendenderbertert Bouil :mittendenderberterf

L/c. Nac L/c. Date: WORLDS Her He III, C. 1. D. C., Undergood Diet Valent Chilant - 316 172.

Tel.-91-040-700 9900 Jun: 51-200-300-9872

Fruil : operichteniusteriari

FRM QC69A/62/30.12.2M2

MILL TEST /INSPECTION CERTIFICATE 3.1

ACCORDING TO BN 10204: 2005 Test Certificata No. : EDOP/00236 - 01/2017-2018 Date of Issue : 31.05.2017 : MINS608 P. O. Na. SC_No. & Date : 15-17/00788, De.16.03.2017 Envoice No. & Date : EXP/00236/2017-18 DL31.05.2017 PRODUCT DESCRIPTION LENGTH Net WL STAINLESS STEEL BOUND BARS Ordered Actual 478 LBS 12-16 12-16 Siza Grede Process Route Heal No. Tolerance AJS mm/mah Electric Melding A.O.D. Refining. CH-6094 Continuous Casting 303 SAL 10 CHEMICAL COMPOSITION (Weight %) N C SI Mn P S G Mo NI CK TI 0.150 17.00 - BL00 Mfa. . Max. 0.250 1.00 2.00 0.200 19.00 10.00 Results 9.043 1.86 Q.036 0.220 17,25 Lin MECHANICAL PROPERTIES-Reduction of Area Hardness Specified Yield Strength Tanalle Strangth Elengation N/mm²/MPa(R21) (EB) N/mm1/MPa(Rp0.2) Value Mila. 362 May 229-228 380 710 37 60 Results

Remarks

1. Cold drawn & Centraless Cround.

2. Substion annualed at 1050 °C.

- 3. PMI lest done 100% & found Satisfactory.
- 4. Material has improved machinability.
- 5. Material is free from radio-active contamination.
- 6. The material conforms to ASTM ASIN/SI2M-12 Specifications.
- 7. Location of sumple Centre, Direction Longitudinal, Test Temp Room Temp., Shape of Test Piece Round.
- 8. Marking detalia Company Loga, Size, Grade & Heat No.
- 9. The muterial is manufactured/melt in Chandan Steel Mill and is of Indian Origin.
- 10. No welding/weld repairs was performed on this material.

BUNDLENO:

71

uder.

MANAGER QUALITY ASSURANCE

it is hereby certified that the above casells are true and convert in every details and are morning the engainements of specification or porchase under.



COLD FINISHED FLAT BARS

FCR-13

POL INC BANAINA SI'N 20720 Axhokia (Diolutica) Segin

moo.leodisveuravew CIFAVAT: ESA48115950

Admin. y Pinanapa / Accounts Tel.: (+34) 943 057 351 (+34) 940 251 712 Pac (+34) 943 057 312 rturnalnes/Greenstreel.com

TR-1923

Feet (+34) 946 264 626 munoish cal Oregus near Loom

CERTIFICADO DE CALIDAD

Destinatario :

LES ACIERS TRANSBEC

Material:

COLD ROLL SAB 1018. ACCORDING TO ASTM A108

CERTIFICAMOS: Que of material suministrado con cargo a los pedidos de

referencia y amparedo por nucetro albaran Nº EX/4,773 y Fra. Nº EV17/286

corresponden a los análisis y fusiones siguientes de acuerdo con la norma EN 10204 / 2.2:

		Courpes	kdůn Qolmica de	b colo	da				Caraci.	moréaice	s la miand
S/.Pedidos Nº	MATERIAL	CALEDAD	COLADA	C %	Min.	SL %	S.	P. %	Re Nam2	Rm Nimm2	Λ %
MN-47089	5 X 3/8		171 JOB	0,15	0,77	0,14	0,002	0,016	554,00	580,00	12,00
MN-47093	2 X 1/4		550449	0,16	0,76	0,20	0,011	0,017	329,00	495,00	29,00
MDN-47093	5 X 3/8		171108	0,15	0,77	0,14	0,002	0,016	\$54,00	580,00	12,00
MN-47093	6 X 3/4		170723	0,17	0,75	0,19	0,002	0,021	553,00	\$80,00	14,00
OU-483'11	1 X 3/4 FC	R342	171454 -	D,16	0,73	91.0.	0,005	0.017	307,26	446,12	26,18
OU-48311		€343	171459	0,15	0,70	0,16.	0,005	0,017	328,17	455,80	24,31
- OU-48311	3X1 /	28/3 (171456	0,15	0,70	0,19	0,004	0,019	319,60	453,88	26.57
QU-18311	4 X 1/2	-E 1214	171428	0,16	0,81	0,18	0,011	0,017	315,61	448,72	26,44
PAJ-43098	2 X I/2		171444	0,17	0,79	0,19	0,007	0,016	3 73,22	462,60	24,10
PAJ-48098 '	3 X 3/8		171438	0,19	0,80	0.24	0,008	0.017	325,45	456,76	24,91
PAJ-48098	3 X 3/4	-	171455	0,15	0,70	0,16	0,005	0,017	328,17	455,80	24,31
PAJ-48098	3 X 1-1/2		170400	61,0	0,79	0,18	0,004	0,016	328,17	455,80	24,31
PAJ-48098 .	6 X 1/2		171612	0,16	0,82	0,20	0,004	0.019	550,00	576,00	13,00
PAJ-48098	11.6		170932	0,17	0,75	0.16	0,005	0,019	557,00	585,00_	14,00
PAJ-48098	B X 3/4		162602	0.18	0,79	0,16	0,003	0,012	558,00	586,00	14,00
PAR-43178	2 X 3/16		54305	0,15	0,70	EL,D	0,036	0,011	344,00	481,00	32,70
PAR-48178	6 X L/2	100000000000000000000000000000000000000	171612	0,16	0,82	0,20	0,004	0.018	550,00	576,00	13,00

Gornika (SPAIN), 11 de Septiembre de 2.017 Responsable de Calidad



ARANA Y LUPARDO, 2

48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN)

Tino.: 946480211

Fax: 946480128

Email: culpradera@calibradospradess.es

www.calibradospradera.cs

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTETCATE NR.: 48819

ALBARAN 48819 Delivery Note Nr.

CLIENTE

LES ACIERS TRANSBEC (1997) LITÉE

CUSTOMER

Norma : EN 10277

Productos Calibrados da acero. Condiciones técnicas de suministro.

Norm:

Bright steel products. Technical delivery conditions.

PRODUCTO SOLICITADO / PRODUCTACCORDING ASTMA108

					\$4.
PAR-47851	1018 CUA ESTERADO 12,70 (1/2")	880	-0,110	916617.	12,70
OU-47812	1018 CUA ESTURADO 12,70 (1/2") COR (2)	982	-0,110	916617	12,70
AQM-47672	1018 CUAL ESTERADO 38,10 (1 1/2")	1.018	-0,160	139549	38,10
PAJ-48073	1018 CUA. ESTIRADO 12,70 (L/2")	990	- 0,110	916617	12,70
PAJ-48073	1018 CUAL ESTERADO 38,10 (1 1/2")	1.016	-0,160	139756	38,10
MJP-47896	1018 CUA. ESTERADO 38,10 (1 1/2")	2.032	-0,160	139775	38,10
MNL47094	1018 CUA ESTIRADO 38,10 (1 1/2")	892	- 0,160	139817	38,10
NOL47094	12L14 RED. ESTTRADO 31,75 (1 1/4")	892	- 0,051	202514	31,75
PAJ-48097	1618 CUA ESTIRADO 38,10 (1 1/2")	886	-0,160	140120	38,10
PAR-48177	1018 CUAL ESTIRADO 25,40 (1")	1.036	-0,130	916780	25,40
PAR-48177	1018 RED. ESTIRADO 25,40 (1")	4.004	- 0,051	140110	25,40
PAR-48177	12L14 RED. ESTIRADO 22,23 (7/8")	994	-0,051	202551	22,23
PAR-48177	12L14 HEX. ESTIRADO 28,58 (1 1/8")	1.056	-0,076	916960	28,58
MJP-48227	1018 RED. ESTIRADO 12,70 (1/2")	1.030	-0,051	148121	12,70
OU-48310	12L14 RED. ESTERADO 15,88 (5/8")	1.008	-0,051	140427	15,88
OU-48310	1018 RED. ESTIRADO 6,35(1/4") RPR 14	1.062	-0,051	140428	6.35
OU-48310	1018 RED. ESTURADO 19,05 (34") RER 34/	2.044	- 0,051	140430	19,05
OU-48310	1018 RED. ESTIRADO 12,70 (1/27) [CEL 1/2]	1.060	-0,051	140431	12,70
AQB4-47689	1018 RED. ESTIRADO 9,53 (3/6") (20) 259	950	-0,051	140166	9,53

Composición química de la calada / Chemical Analysis of Host

MEDIDA Maasurement	OF	COLADA Cast Nr.	% C	*	Ce Ce	7/4 7/2n	% Me	% N	% NI	% F	1/4 Ph	8	% S8
12,70 0,00	916617	41450 I	0,150	0,000	0,000	0,769	0,000	0,000	0,000	0,015	0,000	. 0,009	0,194
12,70 0,00	916617	41450	0,150	0,000	0,000	0,769	0,000	0,000	0,000	0,015	0,000	0,009	0,194
38,10 0,00	139549	41798	0,165	0,000	0,120	0,760	0,000	0,000	0,000	0.010	0.000	0,012	0,230
12,70 0,00	916617	41450 (0,150	0,000	0,000	0,769	0,000	0,000	0,000	0,015	0,000	0,009	0,194
38,10 0,00	139756	41798	0,165	0,000	0,150	0,760	0,000	0,000	0,000	0,010	0,000	0,012	0,230
38,10 0,00 L	139775	41798 !	0,165	0,000	0,150	0,760	0,000	0,000	0,000	010,0	0,000	0,012	0,230
38,10 0,00	139817	41798	0,165	0,000	0,150	0,760	0,000	0,000	0,000	0,010	0,000	0,012	0,230
31,75 0,00	202514	40991 W	0,070	0,140	0,270	1,110	0,030	0,000	0,120	0,052	0,210	0,313	0,020
38,10 0,00	[40120	41798	0,165	0,000	0,150	0,760	0,000	0.000	0,000	0,010	0,000	0,012	0,230
25,40 0,00	916780	41544 C	0,160	0,000_	0,000	0,720	_0,000_	0,000	0,000	0,016	0,000	0,023	0,160
25,40 0,00	140110	41830 G	0,170	0,000	0,000	0,670	0,000	0,000	0,000	0,011	0,000	0,018	0,134
22,23 0,00	202551	41687 AG	0,070	0,046	0,012	1,130	0,006	0,000	0,023	0,064	0,270	0,300	0,003
28,58 : 0,00	916960	41658 AG	0,070	0,080	0,010	1,090	0,011	0,000	0,024	0,056	0,300	0,300	0,005
12,70 0,00	140121	41690 GM	0,170	0,000	0,029	0,710	0,000	0,007	0,000	0,020	0,000	0,008	0,160
15,88 0,00	140427	41826-G	0,065	0,028	0,085	1,125	0,010	0,000	0,033	0,044	0,260	0,304	0,012
6,35 0,00	140428	41480 GM	0,160	0,000	0,000	0,750	0,000	0,000	0,000	0,021	0,000	0,032	0,160
19,05 0,00	140430	41702 AG	0,177	0,000	0,119	0,787	0,000	0,002	0,000	0,013	0,000	0,022	0,201
12,70 0,00	140431	41705 GM	0,160	0,000	0,760	0,720	0,000	0,012	0,000	0,013	0,000	0,012	0,170
9.53 0.00	140166	41460 GM	0,160	0,000	0.000	0,750	0,000	0,000	0,000	0.021	0,000	0.032	0,160



ARANA Y LUPARDO, 2

48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN)

Tfno.: 946480211 Fax: 946480128

Email: calpadom@calibradospradora.es

www.calibradospradera.cs

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 48819

ALBARAN 48819 Dalivery Note Nr.

Norms : EN 10277

CLIENTE LES ACIERS TRANSBEC (1997) L'IÉE CUSTOMER

The said

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm:

Bright steel products. Technical delivery conditions.

Carneteristicus mecăricus / Machanical propertie

MEDIDA.	OF	COLADA Cast Nr.	Resistencia Tens. stranght N/mm2	Lim elistica Field point 0,2% N/mm2	Alargamiento Elongation Lo=50 mm.	Oureza RB Hardnest HB	Entricutón %	
12,70	916617	41450	606,20	550,30	15,40	185,00	61,50	
12,70	916617	41450	606,20	550,30	15,40	185,00	61,50	
38,10	139549	41798	472,00	314,00	33,00	0,00 .	9,00	
12,70	916617	41450	606,20	550,30	15,40	185,00	61,50	
38,10	139756	41798	472,00	314,00	33,00	0,00	0,00	
38,10	139775	41798	472,00	314,00	33,00	0,00	0,00	
38,10	139817	41798	472,00	314,00	33,00	0,00	0,00	
31,75	202514	40991 W	545,20	529,60	24,08	200,00	40,07	
38,10	140120	41798	472,00	314,00	33,00	0,00	0,00	
25,40	916780	41544 C	499,00	321,00	29,00	0,00	0,00	
25,40	140110	41830 G	608,12	588,78	27,36	205,00	57,24	
22,23	202551	41687 AG	551,91	540,60	17,60	190,00	49,80	
28,58	916960	41658 AG	491,80	472,70 -	25,70	162,00	50,83	
12,70	140121	41690 GM	647,41	585,28	16,92	228,00	63,62	
15,88	140427	41826 G	588,93	579,26	11,28	175,00	41,65	
6,35	140428	41480 GM	536,00	0,00	35,90	0,00	0,00	
19,05	140430	1 41702 AG	609,50	579,72	16,86	180,00	61.57	
12,70	140431	41705 GM	612,53	597,86	13,40	195,00	46,67	
9,53	140166	41460 GM	524,00	0,00	. 33,50	0,00	0,00	

Cathital Seperficial

DESCREPCIÓN Descripción	OF .	Class EN 10271-1
12L(4 RED, ESTIRADO 3),75 (1 1/4")	202514	. 3
12L14 RED. ESTIRADO 22,23 (7/8")	202551	. 3
12LJ4 HEX, EST(RADO 28,58 (1 1/8")	916960	1
1018 RED. ESTIRADO 12,70 (1/2")	140121	3
12L14 RED. ESTIRADO 15,88 (5/8")	140427	3
1018 RED ESTIRADO 6,35 (1/4")	140428	2
1018 RED. ESTIRADO 19,05 (3/4")	140430	2
1018 RED. ESTIRADO 12,70 (1/2")	140431	3
1018 RED. ESTIRADO 9,53 (3/8")	140166	2

Observaciones: BARRAS DE ACREO ESTERADAS EN FRIO SIN ALEAR



ARANA Y LUPARDO, 2

48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN)

Tino.: 946489211 Fac: 946489128

Entail: calpradera@calibradospradera.es

www.calibradospradera.es

CERTIFICADO DE CALIDAD/OUALITY REPORT

De aenerdo a /Made secording to:

EN 10204/DIN 50049

LI

N° CERTIFICADO / CERTIFICATE NR.: 48819

ALBARAN 48819 Delivery Note Nr. CLIENTE LES ACIERS TRANSPEC (1997) L'IÉE CUSTOMER

Norma : EN 10277

Productes Calibrados de acero. Condiciones técnicas de Saministro.

Norm:

Bright steel products. Technical delivery conditions.

DEPARTAMENTO DE CALIDAD: Certifica que el meneirando producto cumple con las especificaciones del pedido.

QUALITY DEPARTMENT: Carefy that the product fulfils the order specifications.

Feeba/Date: 20/09/2017

Firmado: Susana Fernández

Directora de Calidad





#5306 RCR-2-20

TRA 1588



ARANA Y LLPARDO, 2 48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN) Tino.: 946480211

Fax: 946480128

Email: calpradera@calibradospradera.es

www.calibradospradera.es

CERTIFICADO DE CALIDAD/OUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

Nº CERTIFICADO / CERTIFICATE NR.: 47901

ALBARAN 47901 Delivery Note Nr.

CLIENTE CUSTOMER

LES ACIERS TRANSBEC (1997) LTÉE

Norma: EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm:

Bright steel products, Technical delivery conditions.

PRODUCTO SOLICITADO / PRODUCT ACCORDING ASTM A 108

Nº PRDEDO Purchase Order	DESCRIPCIÓN Description	es.	POLERANCIA TOUFRANCE	ON	9 (2 m/s)
PAJ-47284	1018 RED. TORNEADO 101,6 (4")	1.989	-0,102	139585	
-00-49436	1018 KED, ESTIRADO 69,85 (2.3M*)	1.134	-0,102	138834	69,85
MJP-47531	1018 RED. ESTIRADO 57,15 (2 1/4")	1.050	- 0,076	139149	57,15
MJP-47861	1018 RED, ESTIRADO 57,15 (2 1/4")	2.234	-0,076	139301	57,15
PAR-47786	1045 RED. ESTIRADO 50,80 (2")	1.074	-0,102	139307	50,80
OU 47812	1018 RED. ESTIRADO 69,85 (2 3/4")	751	-0,102	139335	69.85
MJP-47868	1013 RED. ESTIRADO 49,21 (1 15/16")	. 990	-0,076	139399	49,21
SM-47572	1018 RED. ESTURADO 50,80 (2")	990	-0,076	139484	50,80
SM-17572	1018 RED, ESTIRADO 57,15 (2 1/4")	1.050	-0,076	139485	57,15
AQM-47672	1018 RED. ESTIRADO 49,21 (1.15/16")	1.882	-0,076	139550	49,21
AQM-47672	1018 RED. ESTIRADO 50,80 (2")	992	-0,076	139551	50,80
OU-47832	1018 RED. ESTIRADO 50,80 (2")	992	-0,076	139621	50,80
PAJ-48073 h	1018 RED. ESTERADO 49,21 (1 15/16")	694	-0,076	139755	49,21
PAJ-48073	1018 RED, ESTIRADO 50,80 (2")	988	-0,076	139754	50,80
MN-47094	1018 RED. ESTIRADO 50,80 (2")	994	-0,076	139815	50,80
PAR-46154	1018 RED. ESTIRADO 57,15 (2 1/4")	1.185	-0,076	139763	57,15
MJP-47896	1018 RED. ESTIRADO 50,80 (2")	3.264	-0,076	139780	50,80
MJP-47896	1018 RED. ESTIRADO 57,15 (2 1/4")	1.188	-0,076	139779	57,15

Composición química de la colada ! Chemical Analysis of Heat

MED Measur		OF	COLADA Cast Nr.	% C	% Cr	% Cu	% Mp	% Mo	% N	% P	% S	% SI
101,60	0,00	139585	41529	0,150	0,000	0,000	0,600	0,000	0,000	0,000	0,000	0,100
69,85	0,00	138834	41577 AG	0,173	0,000	0,132	0,817	0,000	0,003	0,010	0,022	0,218
57,15	0,00	139149	41574 AG	0,179	0,000	0,103	0,776	0,000	0,003	0,012	0,024	0,207
57,15	0,00	139301	41574 AG	0,179	0,000	0,103	0,776	0,000	0,003	0,012	0,024	0,207
50,80	0,00	139307	41479 AG	0,470	0,187	0,000	0,760	0,003	0,000	0,012	0,020	0,197
69,85	0,00	139335	41577 AG	0,173	0,000	0,132	0,817	0,000	0,003	0,010	0,022	0,218
49,21	0,00	139399	41607 AG	0,177	0,000	0,119	0,787	0,000	0,002	0,013	0,022	0,201
50,80	0,00	139484	41607 AG	0,177	0,000	0,119	0,787	0,000	0,002	0;013	0,022	0,201
57,15	0,00	139485	41574 AG	0,179	0,000	0,103	0,776	0,000	0,003	0,012	0,024	0,207
49,21	0,00	139550	41607 AG	0,177	0,000	0,119	0,787	0,000	0,002	0,013	0,022	0,201
50,80	0,00	139551	41607 AG	0,177	0,000	0,119	0,787	0,000	0,002	0,013	0,022	0,201
50,80	0,00	139621 (41607 AG	0,177	0,000	0,119	0,787	0,000	0,002	0,013	0,022	0,201
49,21	0,00	139755	41607 AG	0,177	0,000	0,119	0,787	0,000	0,002	0.013	0,022	0,201
50,80	0,00	139754	41607 AG	0,177	0,000	0,119	0,787	0,000	0,002	0,013	0,022	0,201
50,80	0,00	139815	41607 AG	0,177	0,000	0,119	0,787	0,000	0,002	0,013	0,022	0,201
57,15	0,00	139763	41574 AG	0,179	0,000	0,103	0,776	0,000	0,003	0,012	0,024	0,207
50,80	0,00	139780	41607 AG	0,177	0,000	0,119	0,787	0,000	0,002	0,013	0,022	0,201
57,15	0,00	139779	41574 AG	0,179	0,000	0,103	0,776	0,000	0.003	0.012	0,024	0,207

Características mecánicas / Mechanical properties



ARANA Y LUPARDO, 2 48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN)

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CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10104/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 47901

ALBARAN 47901 Delivery Note No.

Norma : EN 10277

CLIENTE LES ACIERS TRANSBEC (1997) LTÉE CUSTOMER

£(\$109)

Productos Calibrados de acero. Condiciones técnicas de sundalstro.

None !

Bright steel products. Technical delivery conditions.

MEDIDA Meagurement	ОF	COLADA Cost Nr.	Redatencia Text. strenght Nhous2	Limelistice Yield point 0,2% N/mm2	Alargamiento Elongation Lo=50 mm.	Perez 8.8 Harduss HB
101,60	139585	41529	458,GD	299,00	30,00 j	135,00
69,85	138834	41577 AG	457,90	0,00	0,00	0,00
57.15	139149	41574 AG	471,00	0,00	0.00	0,00
57,15	139301	41574 AG	471,00	0,00	0,00	0,00
50,80	139307	41479 AG	731,00	0,00	0,00	0,00
69,85	139335	41577 AG	457,00	0,00	0,00 :	0,00
49.21	139399	41607 AG	459,00	0,00	0.00	0,00
50,80	139484	41607 AG	459,00	0,00	0,00	90,00
57.15	139485	41574 AG	471,00	0,00	0,00	0,00
49,21	139550	41607 AG	459,00	0,00	0,00	0,00
50,80	139551	41607 AG	459,00	0,00	0,00	0,00
50,50	139621	41607 AG	459,00	0,00	0,00	0,00
49,21	139755	41607 AG	459,00	0,00	0,00	0,00
50,80	139754	41607 AG	459,00	0,00	0.00	0,00
50,80	139815	41607 AG	459.00	0,00	0,00	0,00
57.15	139763	41574 AG	471,00	0,00	0.00	0,00
50,80	139780	41607 AG	459,00	0,00	: 0,00	0.00
57,15	139779	41574 AG	471,00	0,00	0,00	0,00

Calidad Superficial

DESCRIPCIÓN	OF	Class
Description		EN 10277-1

Observaciones: BARRAS DE ACERO ESTIRADAS / TORNEADAS EN FRIO SIN ALEAR

DEPARTAMENTO DE CALIDAD: Certifica que el mencionado producto comple con las especificaciones del pedido.

OUNISTY DEPARTMENT Configuia dos product fulfils the order specifications.

Feeba/Date: 21/86/2017

Firmado: Susana Fernández Directora de Calidad



SO 9001:2008

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MIOIS DATE: FE				PO/BATCH	NO. 0388	93/5037949
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	e5 201 261		THI	CKNESS ORDE CKNESS RECE! EET SIZE ORDE EET SIZE RECE!	VED: 2.0 RED: <i>V/.</i>	0
DESCRIPTION	NCR (Check Y/N)	The state of the s		COMMEN	TS	
SURFACE DAMAGE	YN					**************************************
CORRECT FINISH	N					
CORROSION	Y					
CORRECT GRAIN DIRECTION	(Y) N					
CORRECT MATERIAL PER M-DRAWING	Ø N	Asta	HOX		and the second s	
CORRECT THICKNESS	(A) N		, 0			
PHOTO REQUIRED	Y M	,	1.			
CORRECT REF # TO LINK CERT	Ø N	Heet !	F4160	7 AG		nger recognishment than to a service percentage that, or along
CORRECT MATERIAL IDENTFICATION	Ø N					
CORRECT M# ON THE MATERIAL	(M) N					and the same and t
DOES THIS MATERIAL REQUIRE						
ENGINEERING SIGN OFF	Y(N)	<u> </u>				Manager Manager Committee of the Committ
DOES THIS REQUIRE AN	1/2	į				
EXTRUSION REPORT	YIN	1				
CUT SAMPLE PIECE	OFNA	TEDIAL A	NID DDEED	DM A HADONE	SS CHECK	more also transport in 1961 and 1, 100 collects, 1 days for management and and
GOT SAMPLE PIECE			ULTS BELC		.00 01 120.1	
	TEC	HRC T	HRB	DURA	T DUR D	WEBSTER
TYPE OF MATERIAL	-	TING	LHVD	DOINA	1 0000	1 **EDO:E:
TYPE OF MATERIAL SIZE OF TEST SAMPLE				-	 	
	VIC -				1	
HARDNESS / DUROMETER READI			the Outlier Of	fice	1	
	testers	o rocated in	the Quality Of	ii Le		

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	DAS	SIGNED OFF BY:
DATE:	9-8FEB 0 1 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

	FORMAT, ADD AS	REFORMAT, ADD ASTM A108, ADD TOLERANCES	CP	12.09.05
A NE	NEW ISSUE		SO	01.06.12
REV.		DESCRIPTION	ВУ	DATE
DESIGN	SO	DART AFROSPACE ITD	=	2
DRAWN	CP	HAWKESBURY, ONTARIO, CANADA	CANAD	١٨
CHECKED	A.P.	DRAWING NO.		REV. B
MFG. APPR.	2	M1018-R		SHEET 1 OF 1
APPROVED	· ·	TITLE		SCALE
DE APPR.	+	1018-1025 ROUND BAR	r	NTS
DATE 1	12.09.05	COPYRIGHT © 2001 BY DART AEROSPACE LTD HE DOCUMENT FROM Y CAN OFFICE WAS 18 MAY BY DART AEROSPACE LTD NOT TO RETURN OF ARM OF RECOVER OF CONNECTING TO ANY OTHER PRICES WHITEOUT NOT TO RETURN OF ARM OF THE CONNECTING TO ANY OTHER PRICES WHITEOUT NOT TO RETURN OF ARM OF THE CONNECTING TO ANY OTHER PRICES WHITEOUT NOT TO RETURN OF A REPORT OF THE CONNECTING TO ANY OTHER PRICES AND OTHER PRICES.	OSPACE TO ANY OTHER	LTD CONDITION THAT IT IS IN PRESENTATION

PURCHASE MATERIAL: AISI 1018-1025 ROUND BAR MIL-S-7097 OR ASTM A108

SPECIFICATION: PART NUMBER:

M1018-R D.DDD WHERE D.DDD DIAMETER IN INCHES DIA.

EG. 7/8" ROUND BAR = M1018-R0.875

TOLERANCES:

PER ASTM A108 AS FOLLOWS:

TOLERANCE +0.000/-0.002 +0.000/-0.003 +0.000/-0.005 +0.000/-0.005 SIZE UP TO 1.5" INCL. OVER 1.5" TO 2.5" INCL. OVER 2.5" TO 4.0" INCL. OVER 4.0" TO 6.0" INCL.

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SPECIFICATION CONTROL DRAWING

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: <u>M1018</u> DATE:	RO.25C FEB 0 1 20		PO/BATCH	- no.: <u>038</u>	893/503744
MATERIAL CERT RECID: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	2	THIC	CKNESS ORDE CKNESS RECE ET SIZE ORDE ET SIZE RECE	IVED: 0-5	290
DESCRIPTION (C	NCR Check Y/N)		COMMEN	TS	
SURFACE DAMAGE Y					
CORRECT FINISH (Y					
CORROSION Y					
CORRECT GRAIN DIRECTION					
CORRECT MATERIAL PER M-DRAWING		m A 108			
CORRECT THICKNESS (Y		7			
PHOTO REQUIRED Y		1			
CORRECT REF # TO LINK CERT		XFF 41480	o Gm		
CORRECT MATERIAL IDENTFICATION (Y				1000 C C C C C C C C C C C C C C C C C C	
CORRECT M# ON THE MATERIAL	N				
DOES THIS MATERIAL REQUIRE	0				
ENGINEERING SIGN OFF Y	0			*	
DOES THIS REQUIRE AN EXTRUSION REPORT Y	(1)				
EXTROGROW NET ON	10				
CUT SAMPLE PIECE O	F MATERIA	L AND PREFOR	M A HARDNE	SS CHECK.	The second of the last of the last of the second of the se
	RECORD R	ESULTS BELOV	V		
7/25/25	HRC	HRB	DUR A	DURD	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
-ARDNESS / DUROMETER READING					
i	testers located	in the Quality Office	<u>ce</u>		
OC 18 INSPECTION			ENGINEER	RING SIGNO	FF (if require)
DAS					· \. Gdanegi
INSPECTED BY: 11		SIGN	NED OFF BY:		
DATE: 9-89 FEB 0 1 2	010				
DATE: FEBUIZ	.010		DATE:		
A MOST PARTY CO., CAN BE AND ADDRESS OF		# 2			
Attach this inspection sheet with the corre	esponding ma	terial cert and remit	to be scanned a	and received in	

SPECIFICATION CONTROL DRAWING

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SPECIFICATION:

MIL-S-7097 OR ASTM A108

PART NUMBER:

M1018-R D.DDD WHERE D.DDD = DIAMETER IN INCHES

TOLERANCES:

PER ASTM A108 AS FOLLOWS: EG. 7/8" ROUND BAR = M1018-R0.875

SIZE UP TO 1.5" INCL. OVER 1.5" TO 2.5" INCL. OVER 2.5" TO 4.0" INCL. OVER 4.0" TO 6.0" INCL. OVER 6.0" TO 8.0" INCL.

TOLERANCE +0.000/-0.002 +0.000/-0.003 +0.000/-0.004 +0.000/-0.005 +0.000/-0.006

PURCHASE MATERIAL: AISI 1018-1025 ROLIND BAR

DE APPR. CHECKED MFG. APPR. APPROVED DESIGN DRAWN B REFORMAT, ADD ASTM A108, ADD TOLERANCES
A NEW ISSUE CP DART AEROSPACE LTD

HAWKESBURY, ONTARIO, CANADA

DRAWING NO.

M1018-R

SHER 1018-1025 ROUND BAR BY CP REV. B SHEET 1 OF 1 SCALE NTS 12.09.05 01.06.12 DATE

1 2012 -09-24 (U)

co

12.09.05

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: <u>M303R0.750</u> DATE: <u>FEB 0 1 2018</u>					POLIBATOH NO. 038843/50374				
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	96	25		- - - -	THIC SHE	OKNESS ORDE DKNESS RECE IET SIZE ORDE ET SIZE RECE	IVED: 0.		
DESCRIPTION	NCR (Check Y/N)		Property of the state of the st	COMMENTS					
SURFACE DAMAGE	Y	IN)	\					## TO THE RESERVE TO	
CORRECT FINISH	1	N					The same of the sa		
CORROSION	Y	(R)							
CORRECT GRAIN DIRECTION	(7)	N							
CORRECT MATERIAL PER M-DRAWING	0	N	Astu	1 457	2				
CORRECT THICKNESS	0	N		7)00					
PHOTO REQUIRED	Y	(10)							
CORRECT REF # TO LINK CERT	W	N	Heat.	ttch	60	94			
CORRECT MATERIAL IDENTFICATION	V	N							
CORRECT M# ON THE MATERIAL	C	N							
DOES THIS MATERIAL REQUIRE		A							
ENGINEERING SIGN OFF	Y	(N)							
DOES THIS REQUIRE AN	Y	3							
EXTRUSION REPORT	1	(IV)						and the second section of the section of the second section of the section of the second section of the section of th	
CUT SAMPLE PIEC		RECO	ORD RES	SULTS B	ELOV				
7/25 25 1115			HRC	HR	В	DURA	DURD	WEBSTER	
TYPE OF MATERIAL									
SIZE OF TEST SAMPLE								1	
HARDNESS / DUROMETER READI				<u> </u>			1	1	
QC 18 INSPECTION	<u>te</u>	esters	located in	the Quali	ty Offic		RING SIGNO	FF (if required)	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SIGNED OFF BY:____

9-89 FEB 0 1 2018

2010 -02 - 02 N

SCALE REV. B SHEET 1 OF 01.12.20 DATE 10.01.05 DART AEROSPACE LTD

HAWKESBURY, ONTARIO, CANADA

M303R COPYRIGHT © 2001 BY DART AEROSPACE LTD OP DS 303 ROUND BAR B REFORMAT DWG, ADD SPECS (ZN D8-1),
REF PAR 08-020A
A NEW ISSUE 10.01.05 CHECKED
MFG. APPR.
APPROVED
DE APPR.
DE APPR. DESIGN A REV.

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SPECIFICATION CONTROL DRAWING

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SPECIFICATION:

M303RID.DDD DIA. ASTM A582

PURCHASE MATERIAL: AISI 303 SS ROUND BAR (NOTE: AISI 304/316 NOT ACCEPTABLE)

PART NUMBER:

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 0.75" ROUND BAR = M303R0.750

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	M304R0.375 FEB 0 1 2018					PO/BATCH	NO 0388	93/503794
	24'1				THICK	KNESS RECE	IVED: 03	375
DESCRIPTION	NC (Che	eck			2	COMMEN	TS	
SURFACE DAMAGE		N						
CORRECT FINISH	(7)							
CORROSION		N						
CORRECT GRAIN DIRECTION	(7)	N						
CORRECT MATERIAL PER M-DRAWING	(7)	N	Astm	A2.	76			
CORRECT THICKNESS	M	N	210100	1100	14	4		
PHOTO REQUIRED	Y	(N)						
CORRECT REF # TO LINK CERT	(4)	N	Host:	Heh	35	340		
CORRECT MATERIAL IDENTFICATION	-	N	1140	T CI)/0		
CORRECT M# ON THE MATERIAL	1	N		-				
DOES THIS MATERIAL REQUIRE								
ENGINEERING SIGN OFF	Y	(1)						
DOES THIS REQUIRE AN								
EXTRUSION REPORT	Y	A)						
CUT SAMPLE PIECE			ERIAL AN				; ESS CHECK.	
			HRC T	HR		DUR A	DUR D	WEBSTER
TYPE OF MATERIAL	1		1110	1.11	-	DOILLY	1 20:12	V : 2220 : 2.13
SIZE OF TEST SAMPLE	+				-			
HARDNESS / DUROMETER READI	NG F				-			
F. J. I. CONTENT OF THE PROPERTY OF THE ADM		store	located in t	he Quali	ty Office		1	<u> </u>
	100	3.613	rocated III ti	ie Quali	y Onice			

QC 18 INSPECTION	4	ENGINEERING SIGNOFF (if required
INSPECTED BY:	DAS 11	SIGNED OFF BY:
DATE:	⁹⁻⁸⁹ FEB 0 1 2018	DATE:

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В

SPECIFICATION: PART NUMBER:

O

PURCHASE MATERIAL: AISI 304/316 SS ROUND BAR
(NOTE: AISI 303 NOT ACCEPTABLE) ASTM A276 M304R D.DDD DIA.

EG. 0.75" ROUND BAR = M304R0.750 WHERE "D.DDD" = DIAMETER IN INCHES

DE APPR.

09.07.15

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M304R
SHEE SHEET 1 OF 1 REV. B SCALE

304/316 ROUND BAR

>

REFORMAT DWG, ADD SPECS (ZN D6-1),

REF PARA 08-020M

A NEW ISSUE

DESCRIPTION

DESIGN

DESIGN

DRAWN

CHECKED

MFG, APPR.

APPROVED

MILE

TITLE

TOTAL TOT

Als CP

08.03.03 DATE 09.07.15

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COPYRIGHT @ 2008 BY DART AEROSPACE LTD
PROPOSITION OF STREET AEROSPACE LTD
PROPOSITION OF STREET AEROSPACE ARE DIRECT OF A CONTROL OF THE REPORT OF A CONTROL OF THE REPORT OF A CONTROL
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MATERIAL: M304 R DATE: FE	0.4375 B 0 1 2018	- -	POFBATCH	NO.0382	893/503794
MATERIAL CERT RECID: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:		THIC	CKNESS ORDEI KNESS RECEI ET SIZE ORDEI ET SIZE RECEI	VED: 0-4: RED: 1/	375
CORRECT FINISH CORROSION CORRECT GRAIN DIRECTION CORRECT MATERIAL PER M-DRAWING CORRECT THICKNESS PHOTO REQUIRED CORRECT REF # TO LINK CERT CORRECT MATERIAL IDENTFICATION CORRECT M# ON THE MATERIAL DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF Y DOES THIS REQUIRE AN	N N N	1 A276 # 10244	COMMEN	TS	
CUT SAMPLE PIECE OF R	ECORD RES	ULTS BELOV		SS CHECK.	WEBSTER
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB		DURE	WEBSTER
OC 18 INSPECTION DAS INSPECTED BY: DATE: DATE:		the Quality Office		RING SIGNO	FF (if required)

REV. B SHEET 1 OF 1 SCALE NTS 09.07.15 AJS 08.03.03 BY DATE 304/316 ROUND BAR
COPYRIGHT 6 2008 BY DART ARROSFACE LTD
COPYRIGHT 6 2008 BY DART ARROSFACE LTD
CO COPYRIGHT 6 2008 BY DART ARROSFACE LTD
CO COPYRIGHT 6 2008 BY DART ARROSFACE LTD
CO COPYRIGHT 6 2009 BY DART ARROSFACE LTD
CO COPYRIGHT 6 200 DART AEROSPACE ITD HAWKESBURY, ONTARIO, CANADA DRAWING NO. CP B REFORMAT DWG, ADD SPECS (ZN D6-1), REF PAR 08-020A DESCRIPTION DESIGN (S)

DRAWN
CHECKED
MFG. APPR.
APPROVED
DE APPR.
DATE 09.07.15 A NEW ISSUE REV.

WHERE "D.DDD" = DIAMETER IN INCHES EG. 0.75" ROUND BAR = M304R0.750 PURCHASE MATERIAL: AISI 304/316 SS ROUND BAR (NOTE: AISI 303 NOT ACCEPTABLE) M304R D.DDD DIA. ASTM A276 SPECIFICATION: PART NUMBER:

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SPECIFICATION CONTROL DRAWING

MATERIAL: M6061 DATE:			_	PO/BATCH	NO.0388	93/503794
MATERIAL CERT RECID: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	(THI	OKNESS ORDE OKNESS RECE EET SIZE ORDE EET SIZE RECE!	VED: 2.	
DESCRIPTION (0	NCR Check Y/N)			COMMEN	TS	
-	TR					
CORRECT FINISH						
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	RECC	RD RES	ULTS BELO	<i>N</i>		
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	testers	located in	the Quality Offi	<u>ice</u>		
QC 18 INSPECTION				ENGINEER	RING SIGNO	FF (if required)
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DATE: FLOO				DATE:		

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PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR SPECIFICATION:

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M6061T6R|D.DDD |DIA. QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM BZ11 OR ASTM BZ21

PART NUMBER:

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0.625

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DESIGN DRAWN CHECKED REV. DE APPR. MFG. APPR. APPROVED B REFORMAT DWG, ADD B2118 B221 SPEC (ZN D8-1), REF PAR 08-020A NEW ISSUE 09.07.13 M6061T6R DESCRIPTION 6061-T6 ROUND BAR DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA COPYRIGHT © 2001 BY DART AEROSPACE LTD

FORMATE AND CONFECUNAL AND EXPONED ON THE PROPERTY CONTROL THAT IT IS

FOR ANY PLANCE OF THE PROPERTY BY SG CP SHEET 1 OF 1 01.06.08 DATE 09.07.13 REV. B SCALE NTS

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material: <u>M60</u> date:	6116K FEB 0 1	71-000 1 2018		PO/BATCH	NO.03889	13/5037947
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QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	DAS 11	SIGNED OFF BY:
DATE:	9-89 FEB 0 1 2018	DATE:

PART NUMBER:

M6061T6R|D.DDD| |DIA.

SPECIFICATION: PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0.625

B REFORMAT DWG, ADD BZ118 BZ21 SPEC (ZN D8-1),
A NEW ISSUE DESCRIPTION
DESIGN DART AEROSF
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DRAWN DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M6061T6R SHEE 6061-T6 ROUND BAR NTS
COPYRIGHT © 2001 BY DART AEROSPACE LTD
INCOMPRESSION OF A CONTROL AND LOOP OF ANY THE PROPERTY OF THE PR BY CP SHEET 1 OF 09.07.13 01.06.08 DATE REV. B SCALE

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09.07.13

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MATERIAL: M600 DATE:	EB 0 1	R4-000 1 2018	<u>)</u> -	PO/BATCH	NO.:0328	93/5337941
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CORRECT MATERIAL IDENTFICATION		N I	· · · · · ·			
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DOES THIS REQUIRE AN						
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TYPE OF MATERIAL	<u> </u>					
SIZE OF TEST SAMPLE	<u> </u>					<u> </u>
HARDNESS / DUROMETER READ			<u> </u>			1
	test	ers located in	the Quality Off	<u>ice</u>		

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	DAS 11	SIGNED OFF BY:
DATE:	9-89 FEB 0 1 2018	DATE:

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-290/8 (OR AMS 4160) OR ASTM B211 OR ASTM B2XT

PART NUMBER:

M6061T6R|D.DDD| |DIA.

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0.625

B REFORMAT DWG, ADD B2118 B221 SPEC (ZN D8-1).
A NEW ISSUE BY DS CP DATE 01.06.08 09.07.13

DESIGN
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MFG, APPR.
APPROVED

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M6061T6R SHEE

SHEET 1 OF

REV. B SCALE

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DESCRIPTION

09.07.13

6061-T6 ROUND BAR NT:

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MATERIAL: MIOI8)	PO/BATCH	NO. 038 8	8/500194 7	
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DESIGN	DRAWN BY	DART AEROSF HAWKESBURY, ONTAR	
CHECKED (APPROVED	DRAWING NO. MIDIO-B	REV A
DATE O(.13	2.06	AIST 1010-1025 BAR	SCALE NTS
A	01,12.06	NEW ISSUE	

PURCHASE MATERIAL:

AISC 1010-1025 OR ASTM A36 /A366 /A569 /A570 OR CSA G40-21, 38W/44W/50W/60W/70W

PART NUMBER:

T. TIT X WW. WWW WHERE T. TIT = THICKNESS (IN IMHES) WW. WWW + WIDTH (IN INCHES) WIDTH

EG. 0.75" x 250" BAR = M1010-B0.750 x 02.500

